What is claimed is:

- 1. A solid chelating resin comprising
 - a) a reactive hydrophobic backbone
 - b) pendent carbodithioic groups
- 2. The resin of claim 1 wherein said hydrophobic backbone is nucleophilic.
- 3. The resin of claim 1 wherein said resin is a poly(dithiocarbamate).
- 4. The resin of claim 3 wherein said resin contains no tertiary nitrogen groups.
- The resin of claim 1 further comprising a cross-linking reagent reacted onto said reactive sites.
- The resin of claim 5 wherein said cross-linking reagent reacts to form an alkylene, amine, ether, phosphine, sulfide, amide, urea, urethane, phosphoamidate, or thioamidate linkage.
- 7. The resin of claim 5 wherein said cross-linking agent comprises 4,4'-methylenebis (phenyl isocyanate) (MDI), polymeric MDI or polymethylene polyphenyl isocyanate (PAPI), tolylene 2,4, diisocyanate (TDI), isophorone diisocyanate (IPDI), terephthalic acid and its analogs, and adipic acid and its analogs.
- 8. The resin of claim 2 wherein said nucleophile comprises a C, N, O, P, S, or mixtures thereof.
- The resin of claim 1 wherein said reactive hydrophobic backbone comprises a diamine, multiamine or a diol.
- 10. The resin of claim 9 wherein said reactive hydrophobic backbone comprises hexamethylenediamine (HMDA), diethylenetriamine (DETA), triethylenetetramine (TETA), tetraethylenepentamine (PETA), or a mixture thereof.
- 11. A process for producing a chelating resin comprising:
 - a) reacting a nucleophilic compound with carbon disulfide in a suitable solvent, to form a carbodithioic acid;
 - b) neutralizing said carbodithioic acid with a base to form a carbodithioic acid salt;
 - c) reacting said carbodithioic acid salt with a crosslinking reagent in a suitable solvent to form a solid chelating resin.
- 12. The process of claim 11 wherein said chelating resin comprises a (poly)dithiocarbamate

resin.

- 13. The process of claim11 wherein said nucleophilic compound comprises an amine.
- 14. The process of claim 13 wherein said amine comprises a polyamine.
- 15. The process of claim 14 wherein said polyamine comprises polyethyleneimine polyamine.
- 16. The process of claim 11 wherein the molar ratio of carbon disulfide to reactive nucleophilic sites is from 0.1 to 0.9.
- 17. The process of claim 16 wherein the molar ratio of carbon disulfide to reactive nucleophilic sites is from 0.3 to 0.7.
- 18. The process of claim 11, wherein said reaction a occurs at a pH of from 7.0 to 13.0.
- 19. A process for removing contaminants from an effluent stream by contacting the effluent stream with the chelating resins of claim 1.
- 20. The process of claim 19 wherein said chelating resin is contained in a cylinder, a filter, a flow-through packet, or a cartridge.
- 21. A solid chelating composition comprising the solid chelating resin of claim 1 and at least one inert filler.
- 22. The composition of claim 21, wherein the weight ratio of filler to resin is from 0.10 to 0.90.
- 23. The composition of claim 21, wherein the weight ratio of filler to resin is from 0.30 to 0.70.